

FORM PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT NOV 18 2002 OIPC C15			ATTY. DOCKET NO. 1875.1100001		APPLICATION NO. 09/909,896		
			APPLICANT Agazzi et al.		FILING DATE July 23, 2001		
			GROUP 2662				
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	TRADEMARK NUMBER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
TN	AL1	EP 1 139 619 A1	10/2001	EPO	H04L	25/02	<input checked="" type="checkbox"/> Yes No
TN	AM1	WO 01/29991 A2	04/2001	PCT	H04B	10/00	<input checked="" type="checkbox"/> Yes No
TN	AN1	WO 01/54317 A2	07/2001	PCT	H04B	10/00	<input checked="" type="checkbox"/> Yes No
TN	AO1	WO 01/65788 A2	09/2001	PCT	H04L	25/00	<input checked="" type="checkbox"/> Yes No
	AP1						<input checked="" type="checkbox"/> Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TN	AR	1	Otte, S. and Rosenkranz, W., "A Decision Feedback Equalizer for Dispersion Compensation in High Speed Optical Transmission Systems," <i>IEEE International Conference on Transparent Optical Networks</i> , IEEE, June 1999, pages 19-22.				
TN	AS	1	Personick, S.D., "Receiver Design for Digital Fiber Optic Systems," <i>National Telecommunications Conference</i> , November 1973, pages 8E1-4.				
TN	AT	1	Winters, G., "Electrical Signal Processing Techniques in Long-Haul, Fiber-Optic Systems," <i>IEEE International Conference on Communications</i> , IEEE, April 1990, pages 397-403.				
EXAMINER <i>Tuan D. Nguyen</i>				DATE CONSIDERED 12/15/04			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

<p style="text-align: center;">O I P E S C NOV 14 2002</p> <p>FORM PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p>				ATTY. DOCKET NO. 1875.1100001	APPLICATION NO. 09/909,896		
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AL2					Yes No	
	AM2					Yes No	
	AN2					Yes No	
	AO2					Yes No	
	AP2					Yes No	
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TN	AR	2	Copy of International Search Report issued August 23, 2002 for Appln. No. PCT/US01/23038, 7 pages.				
	AS	2					
	AT	2					
EXAMINER	<u>Tom D. Nguyen</u>			DATE CONSIDERED <u>12/15/04</u>			
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	TYPE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
OTPE	IN	AA1	5,650,954	07/1997	Minuhin	364	825	01/1996
TN	IN	AB1	5,881,108	03/1999	Herzberg et al.	375	296	02/1996
SHAR 22 2001	IN	AC1	5,996,415	10/1999	Bliss et al.	375	350	06/1997
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TN	0 483 439 A1	10/1990	Europe	—	—	✓ Yes No
TN	EP 0 805 447 A2	03/1997	Europe	—	—	✓ Yes No
	AN1					Yes No
	AO1					Yes No
	AP1					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	1	Olshansky, Robert et al., "Subcarrier Multiplexed Lightwave Systems for Broad-Band Distribution," <i>Journal of Lightwave Technology</i> , Vol. 7, No. 9 (September 1989) pp. 1329-1341.
TN	AS	1	Bingham, John A. C., "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," <i>IEEE Communications Magazine</i> , (May 1990), pp. 5-14.
TN	AT	1	Chiddix, James A. et al., "AM Video on Fiber in CATV Systems: Need and Implementation," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 8, No. 7 (September 1990), pp. 1229-1239.

EXAMINER	TOAN D. NGUYEN	DATE CONSIDERED	12/15/04
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2					Yes No
	AM2					Yes No
	AN2					Yes No
	AO2					Yes No
	AP2					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	2	Darcie, Thomas E., "Subcarrier Multiplexing for Lightwave Networks and Video Distribution Systems," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 8, No. 7 (September 1990), pp. 1240-1248.
TN	AS	2	Olshansky, Robert et al., "Subcarrier Multiplexed Coherent Lightwave Systems for Video Distribution," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 8, No. 7 (September 1990), pp. 1268-1275.
TN	AT	2	Kanno, Norio and Ito, Katsuyoshi, "Fiber-Optic Subcarrier Multiplexing Video Transport Employing Multilevel QAM," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 8, No. 7 (September 1990), pp. 1313-1319.

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	AA3					
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3					Yes No
	AM3					Yes No
	AN3					Yes No
	AO3					Yes No
	AP3					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	3	Liu, Ming-Kang and Modestou, Panayiotis C., "Multilevel Signaling and Pulse Shaping for Spectrum Efficiency in Subcarrier Multiplexing Transmission," <i>Journal of Lightwave Technology</i> , Vol. 12, No. 7 (July 1994), pp. 1239-1246.
TN	AS	3	Hatamian, Mehdi et al., "Design Considerations for Gigabit Ethernet 1000Base-T Twisted Pair Transceivers," <i>Proceedings of the Custom Integrated Circuits Conference</i> , May 11-14, 1998, pp. 335-342.
TN	AT	3	Frazier, Howard, "10Gig MII update," <i>IEEE 802.3 Higher Speed Study Group</i> , November 9, 1999, pp. 1-24.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM4					Yes No
	AN4					Yes No
	AO4					Yes No
	AP4					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	4	Alderrou, Don et al., "XAU1/XGXS Proposal," IEEE 802.3ae Task Force, May 23-25, 2000, slides 1-26
	AS	4	
	AT	4	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SIPE JC TN	AA1 5,485,490	01/1996	Leung et al.	375	371	—
TN	AB1 5,757,857	05/1998	Buchwald	375	271	—
JAN 8 2001 PARENT & TRADEMARK OFFICE	AC1					
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1					Yes No
	AM1					Yes No
	AN1					Yes No
	AO1					Yes No
	AP1					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	1	Personick, S.D., "Receiver Design for Digital Fiber Optic Communications Systems, I," American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 52, No. 6, July-August 1973, pp. 843-874.
TN	AS	1	Personick, S.D., "Baseband Linearity and Equalization in Fiber Optic Digital Communication Systems," American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 52, No. 7, September 1973, pp. 1175-1194.
TN	AT	1	Kasturia, Sanjay, et al., "Techniques for High-Speed Implementation of Nonlinear Cancellation," IEEE, IEEE Journal on Selected Areas in Communications, Vol. 9, No. 5, June 1991, pp. 711-717.

EXAMINER Tan D. NguyenDATE CONSIDERED 12/15/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2					Yes No
	AM2					Yes No
	AN2					Yes No
	A02					Yes No
	AP2					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	2	Fettweis, Gerhard, et al., "High-Rate Viterbi Processor: A Systolic Array Solution," IEEE, IEEE Journal on Selected Areas in Communications, Vol. 8, No. 8, October 1990, pp. 1520-1533.
TN	AS	2	Fettweis, Gerhard, et al., "Parallel Viterbi Algorithm Implementation: Breaking the ACS-Bottleneck," IEEE, IEEE Transactions on Communications, Vol. 37, No. 8, August 1989, pp. 785-789.
TN	AT	2	Forney, G. David, Jr., "The Viterbi Algorithm," IEEE, Proceedings of the IEEE, Vol. 61, No. 3, March 1973, pp. 268-278.

EXAMINER	Team D. Nguyen	DATE CONSIDERED	12/15/02
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TJN	AR	3	Kasper, B.L., "Equalization of Multimode Optical Fiber Systems," American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 61, No. 7, September 1982, pp. 1367-1388.
TJN	AS	3	Winters, Jack H., "Electrical Signal Processing Techniques in Long-Haul Fiber-Optic Systems," IEEE, IEEE Transactions on Communications, Vol. 38, No. 9, September 1990, pp. 1439-1453.
TJN	AT	3	Winters, Jack H., et al., "Reducing the Effects of Transmission Impairments in Digital Fiber Optic Systems," IEEE, IEEE Communications Magazine, June 1993, pp. 68-76.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL4						Yes No
AM4						Yes No
AN4						Yes No
AO4						Yes No
AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	4	Agazzi, Oscar, et al., "Measurement of Non-Stationarity of 10 Gb/s Multimode Fiber Links," presented at IEEE P802.3ae 10Gb/s Ethernet Task Force Equalization Ad Hoc, November 24, 2000, 5 pages.
TN	AS	4	Agazzi, Oscar, et al., "Algorithm to Postprocess Measured Data," presented at IEEE 802.3ae Equalization Ad Hoc meeting, January 10, 2001, Irvine, California, pp. 1-11.
TN	AT	4	Agazzi, Oscar, et al., "Measurements of DMD-Challenged Fibers at 3.125 Gb/s, presented at IEEE 802.3ae Equalization Ad Hoc meeting, January 10, 2001, Irvine, California, pp. 1-33.

EXAMINER	Tran D. Nguyen	DATE CONSIDERED	12/15/02
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5					Yes No
	AM5					Yes No
	AN5					Yes No
	AO5					Yes No
	AP5					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	5	Lenosky, Tom, et al., "Measurements of DMD-Challenged Fibers at 1310nm and 1Gb/s Data Rate," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Irvine, California, January 10, 2001, pp. 1-21.
TN	AS	5	Lenosky, Tom, et al., "Measurements of DMD-Challenged Fibers at 850nm and 2Gb/s Data Rate," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Irvine, California, January 10, 2001, pp. 1-21
TN	AT	5	Agazzi, Oscar, E., "A Link Model for Equalized Optical Receivers," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Hilton Head, South Carolina, March 11, 2001, pp. 1-30.

EXAMINER Tran D. NguyenDATE CONSIDERED 12/15/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL6					Yes No
	AM6					Yes No
	AN6					Yes No
	AO6					Yes No
	AP6					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	6	Isaacs, Matt, et al., "Measurements of Fiber Responses at 5Gb/s Data Rate Using 850nm VCSELs," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Hilton Head, South Carolina, March 11, 2001, pp. 1-18.
TN	AS	6	Giaretta, Giorgio, et al., "Adaptive Equalization of DMD Challenged Multimode Fiber at 1300 nm," presented at IEEE P802.3ae Equalization Ad Hoc meeting, Hilton, South Carolina, March 11, 2001, 10 pages.
TN	AT	6	Lenosky, Thomas, et al., "Five Gb/s Multimode DMD at 850 nm:Real-Time Data and Equalizer Simulations," presented at IEEE 802.3ae Equalization on Ad Hoc meeting, Hilton Head, South Carolina, March 11, 2001, 13 pages.

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	AL7					Yes No
	AM7					Yes No
	AN7					Yes No
	AO7					Yes No
	AP7					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	Z	Peral, Eva, et al., "Measurements of Time Variation in DMD-Challenged Multimode Fiber at 1310nm for 10GE Equalizer Applications," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Hilton Head, South Carolina, March 11, 2001, 19 pages.
TN	AS	Z	Vorenkamp, Pieter, et al., "Analog Interface for 10-Gb/s Ethernet," 13 pages, presented at IEEE 802.3ae 10Gb/s Task Force Plenary week meeting, Albuquerque, NM, March 7, 2000.
TN	AT	Z	Parhi, Keshab K., "Parallel Implementation of the DSP Functions of the PAM-5 10Gb/s Transceiver," presented at IEEE 802.3ae 10Gb/s Task Force Plenary week meeting, Albuquerque, NM, March 7, 2000, 12 pages.

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AL8						Yes No
AM8						Yes No
AN8						Yes No
AO8						Yes No
AP8						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	8	Personick S.D., "Receiver Design for Digital Fiber Optic Systems," National Telecommunications Conference, November 26-28, 1973, Vol. 1, The Institute of Electrical and Electronics Engineers, Inc., 1973, pp. 8E-1-8E-4.
TN	AS	8	Bhatt, Vipul, "Equalization Ad Hoc Concluding Report," presented at IEEE P802.3ae Equalization Ad Hoc meeting, Hilton Head, South Carolina, March 11, 2001, pp. 1-12.
TN	AT	8	Agazzi, Oscar, et al., "DSP-Based Equalization for Optical Channels: Feasibility of a VLSI Implementation," presented at IEEE 802.3ae 10Gb/s Task Force Interim meeting, New Orleans, Louisiana, September 12, 2000, pp. 1-39.

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9					Yes No
	AM9					Yes No
	AN9					Yes No
	AO9					Yes No
	AP9					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	9	Agazzi, Oscar, et al., "10Gb/s PMD Using PAM-5 Trellis Coded Modulation," presented at IEEE 802.3ae 10Gb/s Task Force Plenary week meeting, Albuquerque, New Mexico, March 7, 2000, pp. 1-38.
TN	AS	9	Agazzi, Oscar, "10Gb/s PMD Using PAM-5 Modulation," presented at IEEE 802.3, Dallas, January 18-20, 2000, pp. 1-19.
TN	AT	9	Lenosky, Thomas, "A Unified Method of Calculating PMD-induced Pulse Broadening," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Tampa, Florida, November 5, 2000, 8 pages.

EXAMINER	TOAN D. NGUYEN	DATE CONSIDERED
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1875.1100001		APPLICATION NO. 09/909,896	
		APPLICANT Agazzi et al.			
		FILING DATE July 23, 2001		GROUP 2662	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA10						
AB10						
AC10						
AD10						
AE10						
AF10						
AG10						
AH10						
AI10						
AJ10						
AK10						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL10						Yes No
AM10						Yes No
AN10						Yes No
AO10						Yes No
AP10						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN	AR	10	Agazzi, Oscar et al., "Interim Observations on Multimode Optical Channels," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Tampa, Florida, November 5, 2000, pp. 1-29.
TN	AS	10	"Progress Report on Equalization of Multimode Fibers," presented at IEEE 802.3ae Equalization Ad Hoc meeting, Irvine, California, January 10, 2001, pp. 1-16.
	AT	10	

EXAMINER	Tran D. Nguyen	DATE CONSIDERED
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